

ZACHAR, J.

ZACHAROVA, D. ZACHAR, J.

Effect of potassium ions on electrical activity of irritation and inhibition fibers. Cesk. fysiол. 6 no.4:472-478 Nov 57.

1. Fysiologicky ustav CSAV, Praha, Laboratorium neurofysiologie SAV, Bratislava.

(NERVES, physiology,

electrical activity of inhib. & irritation fibers, eff. of potassium (Cs))

(POTASSIUM, effects,

on electrical activity of inhib. & irritation nerve fibers (Cs))

ZACHAR, J.; ZACHAROVA, D.

Mechanical energy as causative agent of spreading depression. Cesk. fysiол.
7 no.3:189-190 May 58.

1. Oddelenie neurofyziologie Ustavu experimentalnej mediciny SAV v
Bratislave.

(CEREBRAL CORTEX, physiол.

spreading depression, mechanical causes (Cz))

ZACHAROVA, D.; ZACHAR, J.

Mechanism of appearance of spreading depression. Cesk. fyziol. 7 no.3:
190-191 May 58.

1. Oddelenie neurofyziolgie Ustavu experimentalnej mediciny SAV v
Bratislave.

(CEREBRAL CORTEX, physiol.
spreading depression, mechanism (Ca))

ZACHAR, J.; RUSCAK, M.

Cerebral metabolism in spreading depression. Cesk. fysiол. 7 no.3:191-192 May 58.

1. Oddelenie neurofysiologie Ustavu experimentalnej mediciny SAV v Bratislave.

(CEREBRAL CORTEX, physiol.

spreading depression, brain metab. (Cz))

(BRAIN, metab.

in cortical spreading depression (Cz))

DUDA, P.; RUSCAK, M.; ZACHEAR, J.

Cerebral metabolism in depolarization induced by asphyxia following spreading depression. Cesk. fysiол. 7 no.5:446-447 Sept 58.

1. Ustav experimentalnej mediciny SAV, Bratislava.

(BRAIN, metabolism,

eff. of depolarization induced by asphyxia after spreading decortical depression (Cz))

(ASPHYXIA, exper.

eff. of depolarization induced by asphyxia after spreading cortical depression on cerebral metab. (Cz))

(CEREBRAL CORTEX, physiол.

spreading depression with consecutive asphyxia & depolarization, eff. on cerebral metab. (Cz))

DUDA, P.; ZACHAR, J.; RUSCAK, M.

Course of terminal anoxic depolarization following spreading EEG depression.
Cesk. fysiол. 7 no.5:448-449 Sept 58.

1. Ústav experimentálnej medicíny SAV, Bratislava.
(CEREBRAL CORTEX, physiол.

spreading depression with terminal anoxic depolarization (Cz))

(ANOXIA, exper.

terminal anoxic depolarization after spreading cortical EEG
depression (Cz))

ZACHAR, Jozef; ZACHAROVA, Daria

Mechanism of the origin of spreading cortical depression. *Iek.*
prac. (Biol. lek.) 3 no.2:3-110 '63

1. Ustav experimentalnej mediciny SAV.

*

ZACHAR, J.; HENCEK, M.

Intracellular water and density of single muscle fibres in the crayfish. *Physiol. Bohemoslov.* 14 no.1:1-11 '65

1. Institute of Experimental Medicine of the Slovak Academy of Sciences, Czechoslovak Academy of Sciences, Bratislava.

CZECHOSLOVAKIA

HENCEK, M.; ZACHAR, J.: Department of Normal and Pathological Physiology, Slovak Academy of Sciences (Ustav normalnej a patologickej fyziologie SAV), Bratislava.

"Electrical Activity of the Isolated Muscle Fiber of Sweet Water Crab."

Prague, Ceskoslovenska Fysiologie, Vol 14, No 5, Oct 1965, p 348.

Abstract: Study of resistance capacitance and speed of transmission in 24 fibers with oscillographic recordings. These parameters were found closely related to the radius of the fiber. Graph, 2 Western references. Paper presented at the 15th Physiology Days, Olomouc, 28 May 65.

Biophysics

CZECHOSLOVAKIA

ZACHAR, Jozef; [Affiliation not given].

"Symposium on Biophysics of Membranes"

Prague, Vestník Československé Akademie Ved, Vol 75, No 5, 1966,
pp 755 - 756

Abstract: The symposium was held at Smolenice on 29 Aug to 3 Sep 66. The conference was organized by the Institute of Normal and Pathological Physiology of the Slovak Academy of Sciences at Bratislava; there were 42 delegates from 16 countries, some of them Western. Passive permeability of natural and synthetic membranes for ions, bonds of Na and K atoms in erythrocytes and in excitable membranes, ion transport through epithelia tissues, mechanisms of permeability and metabolism; influence of aldosterone and other drugs on permeability, active transport of non-electrolytes and interaction with sodium; genetic aspects of permeability mechanisms are discussed. Some of the papers presented will be published, others will not. No references.

1/1

HENOEK, M.; ZACHAR, J.

The electrical constants of single muscle fibres of the crayfish
(*Astacus fluviatilis*). *Physiol. Bohemoslov.* 14 no.4:297-311 '65.

1. Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava. Submitted October 29, 1964.

ZACHAR, J.; SAJTER, V.

The sodium and potassium content of single muscle fibres of the crayfish, *Physiol. Bohemoslov.* 14 no.2:113-125 '65.

1. Institute of Experimental Medicine, Slovak Academy of Sciences, Bratislava, and Institute of Biochemistry, Faculty of Medicine, Comenius University, Bratislava.

ZACHAR, J.; ZACHAROVA, D.; HENCEK, M.

Membrane potential of the isolated muscle fibre of the crayfish.
(*Astacus fluviatilis*). *Physiol. Bohemoslov.* 13 no.2:117-128 '64

The relative potassium and chloride conductances in the muscle
membrane of the crayfish. *Ibid.*:129-136

1. Institute of Experimental Medicine, Slovak Academy of
Sciences, Bratislava.

ZACHAR, J.; HENCEK, M.; ZACHAROVA, D.

Membrane conductivity of muscle cells in an osmotically
changed medium. Bratisl. lek. listy 43 Pt. 2 no.7:398-411
'63.

1. CSAV - Ustav experimentalnej mediciny SAV v Bratislave,
riaditel clen koresp. SAV J. Antal, Dr. Sc.
(ELECTROMYOGRAPHY) (IONS) (SUCROSE)
(CHOLINE) (SODIUM CHLORIDE) (CALCIUM)
(MUSCLES)

ZACHAR, J.; ZACHAROVA, D.

Release thresholds of spreading depression in the lysoccephalic brain
of some phylogenetic species. Bratisl. lek. listy 42 no.10:602-610
'62.

1. Z oddelenia neurofyziolgie Ustavu experimentalnej mediciny Slovensky
akademie vied v Bratislave, veduci clen koresep. Slovensky akademie vied
J. Antal, Dr.Sc.

(CEREBRAL CORTEX physiol)

BURESH, Ya.[Bures, Jan]; PETRAN', M.[Petran, Mojmir]; ZAKHAR, I.
Zachar, Jozef]; KEDER-STEPANOVA, I.A.[translator]; SMIRNOV, G.D.,
red.; RAYSKAYA, N.A., red.; YANOVSKAYA, Ye.A., red.; REZOUKHOVA,
A.G., tekhn. red.

[Electrophysiological methods of research]Elektrofiziologicheskie
metody issledovaniia. Pod red. i s predisl. G.D.Smirnova. Mo-
skva, Izd-vo inostr. lit-ry, 1962. 454 p. Translated from the
Czech. (MIRA 15:12)

(Electrophysiology)

DUDA, P.; RUŠČAK, M.; ZACHAR, J.

Spreading cortical depression and the polarization gradient of
the cerebral cortex. *Physiol Bohemoslov* 10 no.5:438-447 '61.

1. Institute of Experimental Medicine, Slovak Academy of Sciences,
Bratislava.

(CEREBRAL CORTEX physiol) (ANOXIA exper)

ZACHAR, J.; HENCEK, M.

A method of multilead d.c. registration on the one-beam oscilloscope by the chopping technique. Physiol Bohemoslov 10 no.5:474-479 '61.

1. Institute of Experimental Medicine, Slovak Academy of Sciences, Bratislava.

(OSCILLOMETRY)

ZACHAR, J.

1. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
2. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
3. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
4. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
5. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
6. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.
7. "Analysis of the Splenic Atrophy in the Lumbosacral Spinal Deformities," by P. DINA of the Neurophysiological Section of the SAV Institute of Experimental Medicine (address: 1002, Bratislava, Czechoslovakia), pp. 585-590.

ZACHAR, J.; HENCEK, M.

On the problem of the dissociation of the muscle active potential in contractions. *Cesk.fysiol.* 9 no.3:277-278 Ky '60.

1. Ustav experimentalnej mediciny SAV, Bratislava.
(MUSCLES physiol)

ZACHAROVA, D.; ZACHAR, J.

On the problem of the spreading action potential in the muscle fiber in crayfish. Cesk.fysiol. 9 no.3:278 Ky '60.

1. Ustav experimentalnej mediciny SAV, Bratislava.
(MUSCLES physiol)

ZACHAR, Josef

21st International Physiological Congress in Buenos Aires, August
9-15, 1959. Biologia 15 no.2:74-78 '60. (KEAI 9:5)

(INTERNATIONAL PHYSIOLOGICAL CONGRESS 21ST, BUENOS AIRES, 1959)
(PHYSIOLOGY)

CZECHOSLOVAKIA/Human and Animal Physiology - Nerve and Muscle
Physiology.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13135

Author : Zacharov, D., Zachar, J.

List : -

Title : Influence of Potassium Ions on Electrical Activity of
Excitor and Inhibitor Fibers.

Orig Pub : Physiol. bohemosl., 1957, 6, No 4, 462-470

Abstract : No abstract.

Card 1/1

CZECHOSLOVAKIA/Human and Animal Physiology - Nerve and Muscle
Physiology.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13134

At the site of the action of the solutions with an increased concentration of K there was noted a lowering of the amplitude and an ascending phase of the potential of the effect for both inhibitor and excitor axons. Very similar changes were observed in the rate of conductivity after intoxication with 2,4-dinitrophenol.

Card 2/2

- 89 -

ZACHAR, J.

SCIENCE

Periodicals: CESKOSLOVENSKA FYSIOLOGIE Vol. 4, no. 4, 1955

ZACHAR, J. Notes on the problem of changes in electricral signals of impulses in electronus. p. 445

Monthly List of East European Accessions (EEAI) LIC, Vol. 8, No. 5,
May 1959, Unclass.

ZACHAR, Laszlo

"Aluminum building structures" by Buray, Bolcskey, Csellan, Domony.
Reviewed by Laszlo Zachar. Koh lap 96 no.3:142 Mr '63.

LOMNICZY, Dezsó; ZACHAR, László

Development of the Szekesfeharvar Ligh Metal Works. Koh lap 93 no.71
298-301 J1 '60.

ZACHAR, L., Kocsis, J.

Determination of the speed of deformation at extrusion and drawing. p. 71
(KOHASZATI LAPOK. Vol. 12, no. 1/2, Jan/Feb. 1957. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

ZACHAR, L.

Survey of the processing technology of aluminum chips and the equipment needed for it. p.467

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet)
Budapest, Hungary
Vol. 13, no.10/11, Oct./Nov. 1958

Monthly List of East European Accessions (EEAI) IC., Vol. 8, no.7, July 1959
Uncl.

CATAR, G.; KVASZ, L.; ZACHAR, M.

Positive complement fixation reaction for toxoplasmosis in patients in an obstetrical-gynecological department. Bratisl. lek. listy 44 no.8:478-484 '64.

1. Vyskumne laboratorium parazitologie pri Katedre lekarskej biologie Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. V. Vrsansky).

CZECHOSLOVAKIA

CATAR, G., Doc. MUDr, CSc.; ZACHAR, M.; VALENT, M.; VRABIC, J.; HYNIL-HOLKOVA, R.;
PAVLINA, M.

Parasitological Research Laboratory, Dept. of Biology, Faculty of
Medicine, Comenius Univ. (Vyskumne laboratorium parazitologie pri
Katedre biologie Lek. fak. University Komenskeho), Bratislava (for all)

Bratislava, Bratislavské lekárske listy, No 4, 28 Feb 67, pp 226-34

"Infestation of small mammals with tissue protozoa."

(6)

HUDCOVIC, A., doc.: ZACHAR, V.

Biology of the artificial vagina. Cesk. gynek. 26 no.9:676-679 H '61.

1. Z II gyn. por. klin. UK v Bratislave, prednosta doc. MUDr. Aurel
Hudcovic, a z gyn. odd. MUNZ v Bratislave, prednosta MUDr. Vojtech
Kliment.

(VAGINA surg)

ZACHAR, Vilmos

Economy in the use of materials is an important means for reducing prime costs. Ujit lap 12 no.7:25 10 Ap '60.

1. Koho- es Gepipari Miniszterium Iparpolitikai Focaszalyn.

ZACHAR, Vilmos

Gyroscopic voltage indicator. Ujit lap 12 no.2:27 25 Ja '60.

1. Koho- es Gepipari Miniszterium Iparpolitikai Fozsztalya.

ZACHAR, Vilmos

Tilting and moving device, a substitute for hard physical work. Ufit
lap 12 no.2:23 25 Ja '60.

1. Koho- es Gepipari Minisgterium Iparpolitikai Focsztalya.

ZACHAR, Vilmos

Protection of accumulator generators against polarization. Ujit lap
12 no.2:27 25 Ja '60.

1. Koho- es Gepipari Miniszterium Iparpolitikai Fozosztalya.

ZACHAR, V.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Department of Obstetrics and Gynecology (Gynekologicko-
Affiliation: porodnicke oddeleni) City Institute of Public Health
(MUNIZ: Místní ústav národního zdraví) Bratislava

Source: Bratislava, Lekarsky Obzor, Vol X, No 9, 1931, pp 552-559 .

Data: "Experiences with Newer Methods of Diagnosis of Pregnancy"

✓ KLIMENT, V. ; Head (prednosta) of Department above; MD
✓ ZACHAR, V.
✓ VALENT, M.
✓ DEDINSKY, J.

HUBACEK, K., inz.; ZACHAR, Z., inz.

Television transmitter and a restaurant on Jested Mountain.
Poz stavby 13 no.1:38-40 '65.

1. Regional Project Institute, Usti nad Labem, Branch Liberec.

ZACHARA, A.

Aircraft gas generating sets in power engineering. Ciapl
masz przepływ no. 45: 58-61 '63.

ZACHARA, Andrzej, mgr inż.

Analysis of profile losses in blade rows of axial blowers.
Ciepl masz przepływ no.49:27-58 '64.

BIBIAWSKI, Janusz; ZACHARA, Agata

Research on the treatment of infected wounds with local application of antibiotics. Polski tygod. lek. 13 no. 49:1967-1971 8 Dec 58.

1. (Z III Kliniki Chirurgicznej A. M. we Wroclawiu; kierownik: doc. dr med. Zdzislaw Jezioro i z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej we Wroclawiu; dyrektor: lek. med. S. Przylecki). Adres: Wroclaw, ul. Curie-Sklodowskiej 75.

(WOUNDS AND INJURIES, compl.

infect., ther., local chloramphenicol-chlortetracycline-oxytetracycline suspension. (Pol))

(CHLORAMPHENICOL, ther. use

chloramphenicol-chlortetracycline-oxytetracycline suspension in infected wds., local admin. (Pol))

(OXYTETRACYCLINE, ther. use

oxytetracycline-chloramphenicol-chlortetracycline suspension in infected wds., local admin. (Pol))

ZACHARA, Anna

A large emphysematous cyst of the upper left lobe. Gruzlica 29 no.9:
825-827 S '61.

1. Z Kliniki Ftyzjatrycznej Studium Doskonalenia Lekarzy AM w Szpitalu
im. dr A. Sokolowskiego Kierownik: prof. dr med. M. Ziemiński.

(PULMONARY EMPHYSEMA case reports)

BEK, Eugenia; WANAT-KONDRATOWICZ, Wladyslawa; STACHLEWSKA, Stanislaw;
ZACHARA, Anna

Evaluation of the results of chemotherapy in the outpatient
Clinic for treatment of newly discovered cases of pulmonary
tuberculosis in 1959-1962. Gruzlica 32 no.11:981-988 N '64

The effect of correct classical chemotherapy on the healing of
tuberculous cavities. Ibid.:989-999

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy
Akademii Medycznej w Szpitalu im. dr. A Sokolowskiego w Lodzi
(Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian, prof. dr. med.; ZACHARA, Anna

Chemotherapy in patients with pulmonary tuberculosis excreting
bacilli resistant to antitubercular drugs. Gruzlica 32 no.11:
1019-1026 N '64

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzi
(Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian; BEK, Eugenia; STACHLEWSKA, Stanisława; WANAT-KONERATOWICZ, Władysława; WOZNIAK, Stefania; ZACHARA, Anna

Evaluation of results of antibacterial therapy of patients with recently diagnosed pulmonary tuberculosis under clinical conditions. Gruzlica 32 no.8:621-625 Ag '64.

1. Z Katedry i Kliniki Ftizjatrii Studii Doksztalcania Lekarzy Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Łodzi (Kierownik: prof. dr. med. M. Zierski).

BEK, Eugenia; ZACHARA, Anna

The effect of chemotherapy on the early bacteriological results
in patients discharged from the clinic in 1962-1963. Gruzica
32 no.11:961-965 N '64

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzi
(Kierownik: prof. dr. med. M. Zierski).

CZAPLICKI, Jeremi; ZACHARCZYK, Antoni

Changes of intraocular pressure in women during the menstrual cycle. Klin. oczna 29 no.3:281-286 '59.

1. Z Kliniki Okulistycznej Slaskiej A. M. w Zabrsu Kierownik:
prof. dr med. M. Miodroszkiewicz.

(MENSTRUATION physiol)

(INTRAOCULAR PRESSURE physiol)

ZACHARDA, M. (Bratislava)

Manufacture of cast-iron bathtubs. Koh lap 95 no.8:Suppl.: Ontode
13 no.8:179-182 Ag '62.

1. Muegyetem.

ZACHARDA, Miloslav

The use of semi-perament moulds. Slovarenstvi 10 no.4:144-145 Ap '62.

1. Slovenska vysoka skola technicka, Bratislava.

L 20660-66

ACC NR: AP5025355

SOURCE CODE: RU/0019/65/010/003/0773/0781

AUTHOR: Zaharescu, A.

ORG: Institute for Applied Mechanics of the Academy of the R.P.R.,
Bucharest

TITLE: Electrical correction circuits for reducing the increase time
of certain mechanical transducers

SOURCE: Revue Roumaine des sciences technique. Serie de mecanique
appliquee, v. 10, no. 3, 1965, 773-781

TOPIC TAGS: piezoelectric transducer, interference reduction, control
circuit, time constant, test method, dynamic system, second order equa-
tion

ABSTRACT: A method for obtaining an important reduction of the inertia
of certain mechanical transducers by inserting into the measuring
channel an electric quadrupole with suitable characteristics is de-
scribed. Certain possibilities of synthesis of the correction circuits
for transducers representing dynamical systems of the second order are
discussed. The experimental results proved the efficiency of the
suggested method. Orig. art. has: 7 figures and 27 formulas. [Based
on author's abstract]

SUB CODE: 09, 20/ SUBM DATE: 16Dec64/ OTH REF: 002
UDC: 537.7:621.317

Card 1/2 28

ZACHAREWICZ, A.

ZACHAREWICZ, A.

The celebration of the twelfth anniversary of the Manifesto of the Polish Committee of National Liberation in the State Institute of Hydrology and Meteorology. p. 3

Vol 9, no. 7, 1956

GACETA OBSERWATORA, P.I.H.M.

SCIENCE

Warszawa, Poland

So: East European Accession vol 6, no. 3, March 1957

ZACHAREWICZ, M.

More on the motion picture "Industrial Safety in Metallurgic Plants." p. 31.
(OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY. Vol. 10, no. 7, July 1956,
Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

ZACHAREWICZ, M.

Method of mass examination for pulmonary tuberculosis. *Gruźlica*,
Warsz. 20 no. 4:541-550 July-Aug 1952. (CLML 23:3)

1. Of the Institute of Hygiene (Head--Prof. B. Nowakowski, M.D.)
of Silesia Medical Academy. Study made at the request of the Institute
of Tuberculosis.

ZACHAREWICZ, M.

Festival of peace and friendship. p. 2. GAZETA OBSERWATORA.
Warszawa. Vol. 8, no. 7, July 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

EXCERPTA MEDICA Sec. 17 Vol. 3/6 Public Health

1669. ZACHAREWICZ M. Zakł. Hig. Pracy Inst. Med. Pracy. Przemysle Węglowym. Zabrze-Rokitnica. "Przyczynki do metodyki badań mikro-klimatu z udziałem promieniowania cieplnego. On the methodology of microclimate investigations with the participation of thermal radiation MED. PRACY 1956, 7/3 (157-174) Tables 7 illus. 2 Investigations of microclimate in steel works in one of the metallurgical foundries. Technical and methodological difficulties caused by the presence of strong sources of thermal radiation in the working rooms are discussed. A detailed method for investigations under these conditions is presented.

ZACHAREWICZ, Marek

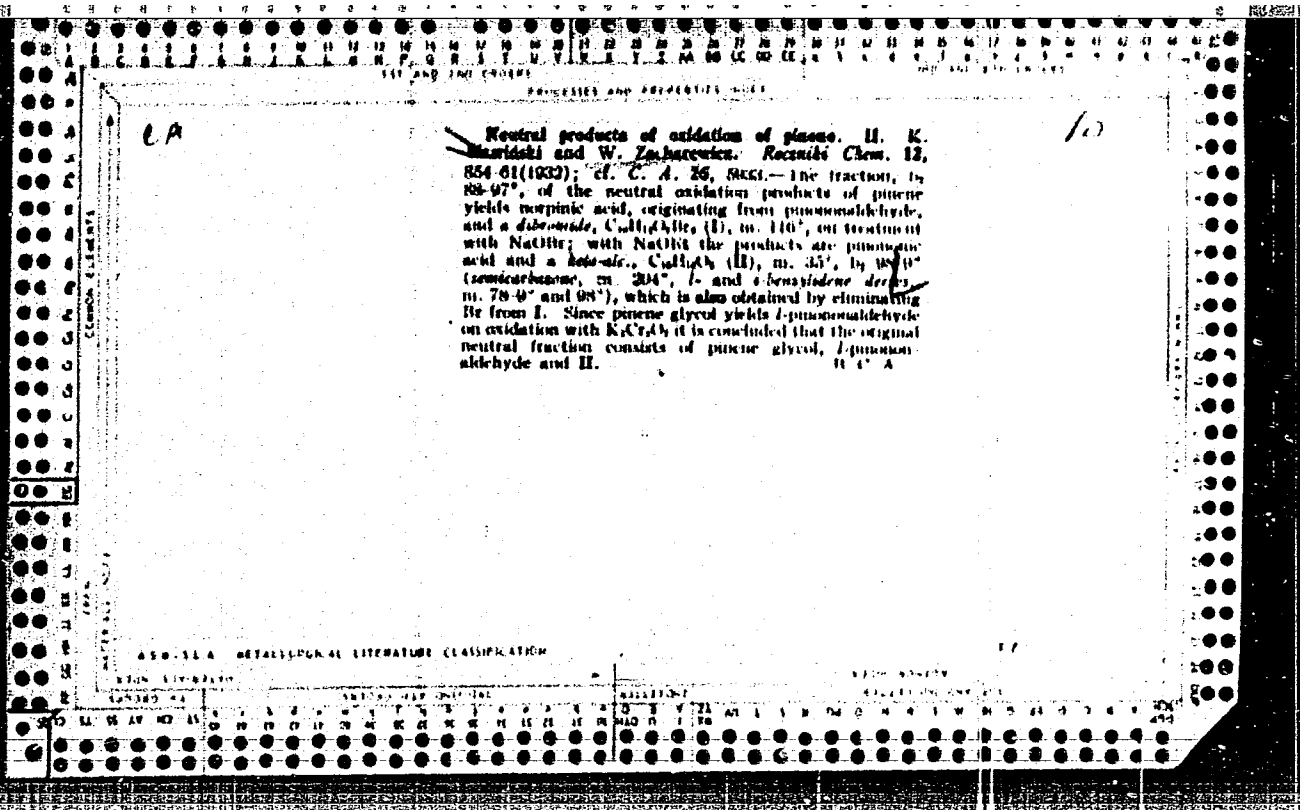
The problem of sampling in tuberculosis control. Gruzlica
30 no.8:725-736 '67.

1. Z Katedry Higieny Ogólnej Sl. AM Kierownik: prof. dr
B. Nowakowski.
(TUBERCULOSIS) (HEALTH SURVEYS)
(COMMUNICABLE DISEASE CONTROL)

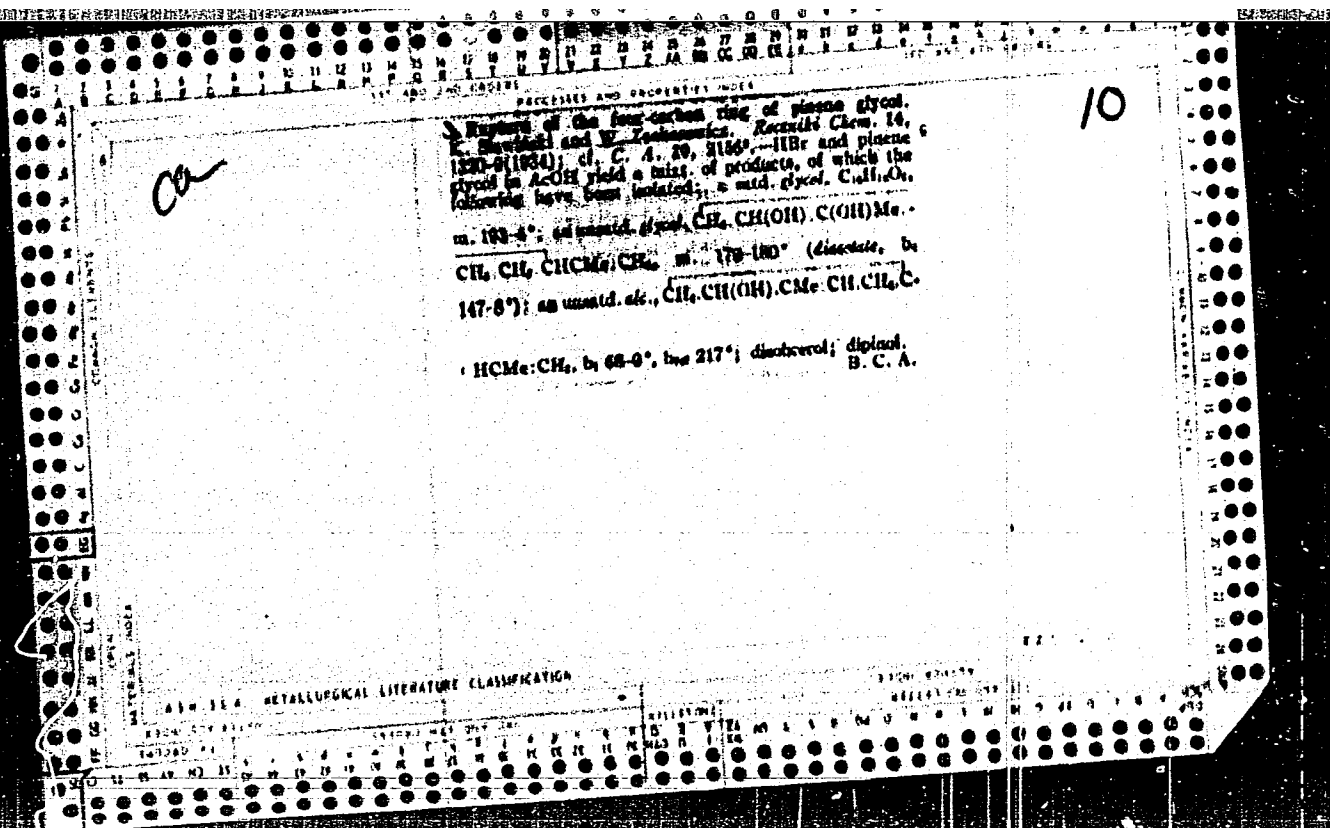
ZACHAREWICZ, Marak

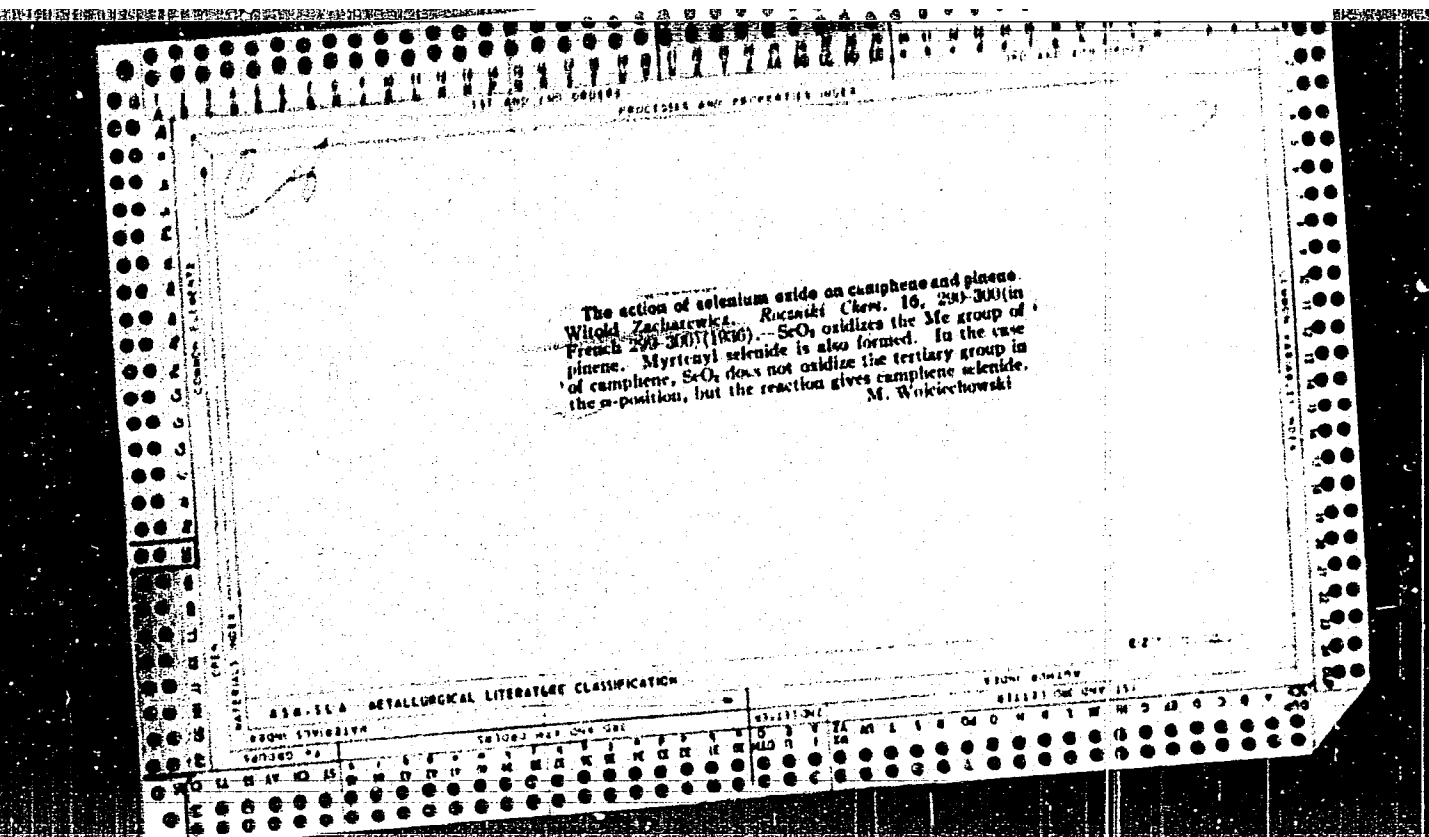
Role of some demographic factors in the epidemiology of tuberculosis. Gruzlica 31 no.4:337-342 '63.

1. Z Katedry Higieny Ogolnej Slaskiej AM Kierownik: prof.
dr B. Nowakowski.
(TUBERCULOSIS) (EPIDEMIOLOGY) (DEMOGRAPHY)



1ST AND 2ND DEGREES										PROCESSES AND PROPERTIES INDEX									
<p>10</p> <p>Acid products of oxidation of pinene. K. Mikawski and W. Zacharyszewski. <i>Roczniki Chem.</i> 30, 213-18(1956); cf. <i>C. A.</i> 50, 1870. Sixty-seven % of the acids produced by KMnO_4 oxidation of l-pinene consist of pinic acid, and the remainder of α-pinic acid. <i>M. C. A.</i></p>																			
<p>ASSOCIATE METALLURGICAL LITERATURE CLASSIFICATION</p> <p>ASSOCIATE SYMBOLS</p> <p>SYMBOLS WITH ONLY ONE</p> <p>RELATIONS</p> <p>RELATIONS WITH ONLY ONE</p>																			





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Ca

Action of selenium oxide on naphtene. *W. H. Zeeb*
Kienitz, Chem. 17, 613 (1911) French 041
 (1917). By the action of SeO_2 on naphtene there were
 obtained pinocaryon and pinocaryone. By oxidation with
 $KMnO_4$, *l*- and *d*-myristic acids give *d*- and *l*-glycerols, m. 67-
 71°. From which there was prepd. a *d*-glycerol, m. 71-
 73°. There were also prepd. diacetates of glycerols,
 $C_{18}H_{34}O_6$, optically active, m. 114-15°, and inactive, m.
 91.5-93°. *M. Wojciechowski*

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGION: STRAIGHT

RESEARCH: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

RESEARCH: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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CA

THE ACTION OF PHOSPHORUS PENTACHLORIDE ON SELENIUM DERIVATIVES OF TERPENES. Witold Zacharyczka. *Koczniki* Chem. 22, 62-7(1948).—Myrtene selenide (I) (17.5 g.) in 50 g. petr. ether and 21 g. PCl_5 in 30 g. petr. ether gave (at 25°) 14.1 g. myrtenyl chloride (II), bp 97-8°, $[\alpha]_D^{25}$ 187.6°, n_D^{25} 1.50287, d_4^{25} 1.0293, and 3.5 g. Se. II (0.5 g.) and 19 g. $AgOAc$ in 73 g. $AcOH$ gave on heating 4 hrs. at 60-70° a mixt. of myrtenyl acetate and chloride, bp 113-16°. Since the mixt. could not be sepd. by distn., it was hydrolyzed with 9% a/c. KOH (reflux 5 hrs.) to myrtenol (III), which was collected in 2 fractions b. 75-6° and b. 76-8° ($[\alpha]_D^{25}$ 30°, n_D^{25} 1.49777, d_4^{25} 0.9705); 3.5 g. $Na_2Cr_2O_7$ (1 hr. without heating) gave on evapn. of the $AcOH$ in *vacuo* and extn. of the residue with Et_2O 2 fractions: (a) b. 66-8° (2 g.), and (b) b. 68-110° (1 g.). Fraction (a), $[\alpha]_D^{25}$ 16.9°, n_D^{25} 1.50153, formed an oxime, m. 69-70°, which did not depress the m.p. of authentic myrtenal oxime. In view of the above results I is thought to be *dimyrtene selenide*. PCl_5 could not be used for the degradation of the selenides of camphene and limonene. H. H. Semant

ASAC-3.2 METALLURGICAL LITERATURE CLASSIFICATION

RECORDS MAY ONLY BE MADE BY THE FOLLOWING

RECORDS MAY ONLY BE MADE BY THE FOLLOWING

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CA

Reaction of selenium oxide with p-menthene. Wulff-Zacharzewski. *Kosulski (Chem. 22, 68-75 (1948))*. Menthene (178 g.) and 72.2 g. SeO_2 in 100 g. EtOH (added dropwise) on heating 4 hrs. at 80° deposited 28.1 g. Se; the filtrate was steam-distd., and from the distillate were isolated 42 g. menthene and 90 g. oxidation products (I). From I, through the NaHSO_3 addn. compd., was isolated 1.5 g. 3-menthen-5-one (II), b.p. $112-15^\circ$; semicarbazone m. $175-6^\circ$. The remainder of I on distn. (4 times) gave 3-menthen-5-ol (III), b.p. $102-4^\circ$, $[\alpha]_D^{20} 18.1^\circ$ (in Me_2CO), d $_4^{20}$ 0.9255; phthalate m. 123° , $[\alpha]_D^{20} 0.55$ (in Me_2CO). III (2.2 g.) and 1.45 g. $\text{Na}_2\text{Cr}_2\text{O}_7$ in 10 g. AcOH gave 1.3 g. II (identified via the semicarbazone). III (15.4 g.) in 100 cc. Me_2CO , on addn. of 350 cc. aq. 3% KMnO_4 soln. (0° , 1.5 hrs.), steam distn., concn. of the residue, addn. of NaHSO_3 , and extn. with Et_2O , gave (from the ext.) 3.5 g. 3,4,5-menthatriol, m. $147-8^\circ$ (from CHCl_3). The nonvolatile product (60 g.) of the original menthene oxidation could not be purified by crystn. or reprecipn.; it contained 23.1% Se, and was concluded to be menthene selenide (IV) (calcd. for $\text{C}_{10}\text{H}_{16}\text{Se}$, 22.4% Se). IV (50 g.) in 112 g. CHCl_3 , on addn. of 25.3 g. Br in 25 g. CHCl_3 (with cooling), gave 12.3 g. Se. The filtrate, on removal of the solvent, gave a residue to which was added 60 g. AgOAc in 180 g. AcOH . The resulting acetate, b.p. $160-20^\circ$ (15 g.), contg. traces of Br, was heated 5 hrs. with 500 cc. 5% Ba(OH)_2 and gave 3.3 g. III (identified via the phthalate). H. H. Semant

ASD-3.6A METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SERIALIZED	INDEXED	FILED

61

The action of selenium oxide on limonene. Wilch, Zdzienicka (Univ. Torun, Poland). *Rozprawy Chem.* 23, 301-32 (1949) (French summary).--Limonene with SeO_2 gave neutral oxidation products and Se compds. The neutral oxidation products, isolated by steam distn., were identified as 2 isomeric alcs., $\text{C}_{15}\text{H}_{26}\text{O}$: a secondary alc. (I), bp 68-85°, n_D^{20} 1.4843, d_4^{20} 0.8539, and a primary alc. (II), bp 70-81°, n_D^{20} 1.4811, d_4^{20} 0.8584. The structure of these 2 alcs. was not detd. II was established, however, that they are not 1,8(9)-p-menthadien-6-ol, or 1,8(9)-p-menthadien-7-ol. The following compds. were prepd. from I: acid phthalate, m. 128-129°; phenylurethan, m. 129°; naphthylurethan, m. 108-109°; phenylurethan, m. 129°; and naphthylurethan, m. 108-109°. Chromic acid oxidizes I to a ketone whose semicarbazone m. 205° (decolor.). The acid phthalate of II semicarbazone m. 199° (without decolor.). Ag_2O oxidizes the above aldehyde to an acid, $\text{C}_{15}\text{H}_{24}\text{O}_3$, m. 60-7°. The nonvolatile residue from the steam distn. of several times formed from limonene with SeO_2 was a mixt. of several compds. which were not isolated in pure state nor sepd. This crude mixt. gave with alc. KOH 2 alcs. identical with I and II. Pyrolysis of this crude mixt. produced only 1 alc., identical with II. 10 references. Cf. C.A. 43, 2976a. Edward A. Ackermann

ZACHAREWICZ, W.

Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

2190 ✓ 667.621.53: 517.507.1
Zacharewicz W., Krupowicz J. Experiments over Obtaining: Varnish
from d — Δ^3 Carene.
„Próby otrzymywania pokostów z d — Δ^3 karenu”. Przemysł Che-
miczny. No. 3, 1953, pp. 110—112.
The isomerisation of d — Δ^3 carene, using a 10% solution of sul-
phuric acid in ethanol, yields a mixture of α — terpinene and myrtha-
diene — Δ^1 , 80%, the yield being approx. 75%. An oleaginous liquid
of varnish properties is obtained by heating the prepared mixture
with Pb_2O_4 . A number of comparative experiments, based on the
standards for linseed varnish, were made with this carene varnish.

3
Mall 2

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4-21-54

ZACHAREWICZ, W.

③

Obtaining varnish from *d*- α -carene. W. Zacharewicz
and J. Krupowicz (Kopernik Univ., Torun, Poland).
Przemysl Chem. 9, 110-12 (1953) (English summary).
d- α -Carene (I) (133 g.), obtained by distn. of Polish terpene
oil by using a Dupont column, b_m 170-1°, has d_4^{20} 0.8012, $[\alpha]_D^{20}$
15.98°, and n_D^{20} 1.4728; when heated 10 hrs. in 100 ml. of
10% H₂SO₄ in EtOH it gave 2 layers which were sepd. with
H₂O vapor. The volatile fractions b. 179-90°, 75% of total
products, were terpenes; the isomerization was complete.
These fractions treated for 1 hr. with PbO₂ yielded an
oleaginous liquid which had varnish properties (carene
varnish). This liquid had the same acid no., ash content,
and drying properties as flax varnish, but the sp. gr. and n_D^{20}
were different and the sapon. no. and I were smaller; it is
insol. in CH₂Cl₂. Gene A. Wozny

11-9-54

744

POLAND / Organic Chemistry. Natural Compounds and Their C-3
Synthetic Analogs.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1389.

Author : ~~Zacharewicz, W.~~ Uzarewicz, A.

Inst : ~~Warsaw~~ Univ. Torun, Poland.

Title : The Oxidation of β -Pyronen with Selenium Dioxide.

Orig Pub: Roczn. chem., 1957, 31, No 2, 721-722.

Abstract: In the oxidation of 1 mole of β -pyronen with 0.5 moles of SeO_2 a bisulfite compound has been isolated, after the decomposition of which a compound was separated having a b. p. of $85-90^\circ\text{C.}/11$ milliliters, n_D^{20} 1.4985, which does not reduce Tollen's reagent. Products which do not form a bisulfite compound were separated into fractions by distillation and a compound was separated having a b. p.

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POLAND

TONASZEWSKA, Lucyna, ZACHAREWICZ, Witold, and KRYCHOWIAK, Lucjan, of the Department of Organic Chemistry, H. Copernicus University, (Katedra Chemii Organicznej Uniwersytetu H. Kopernika, Torun), in Torun.

" On a New Method of Obtaining Pinonic Acid Aldehyde."

Warsaw, Roczniki Chemii, Vol 37, No 9, 1963, pp 1063-1065.

Abstract: [Authors' French summary modified] Authors applied a new method for obtaining pinonic acid aldehyde. This method is based on the reaction between lead tetracetate and pinone glycol in an acetic acid solution. The spectral analysis of this compound was made at the infrared end of the band. Four references, including 2 Polish, 1 German, and 1 Western.

1/1

ZACHAREWICZ, W.

POLAND / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61067.

Author : Witold Zacharewicz, Arkadiusz Uzarewicz.

Inst :

Title : Oxidation of α -Pyronene with Selenium Dioxide.

Orig Pub: Roczn. chem., 1957, 31, No 2, 729-730.

Abstract: An unsaturated alcohol (I) of unestablished structure, boiling point 73 to 75°/7mm, $[\alpha]^{20}_D = +0.3$, $n^{20}_D = 1.5095$, $d^{20}_4 = 0.9062$, was separated at the oxydation of α -pyronene with 0.5 mole of SeO_2 in alcohol. I produces phthalate with phthalic anhydride, melting point 172 to 173° (from $C_2H_4Cl_2$);

Card 1/2

ZACHAREWICZ, W

POLAND / Organic Chemistry. Natural Substances and their Synthetic Analogues. G

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67610.

Author : Zacharewicz W., Krupowicz J., Borowiecki L.

Inst : Not given.

Title : Oxidation of Δ^3 -Carene with Selenium.

Orig Pub: Roczn. chem., 1957, 31, No 2, 739-740.

Abstract: Oxidation of Δ^3 -carene with selenium anhydride in alcohol results in the formation of an unsaturated alcohol of 82-84°/5mm boiling point, $[\alpha]_D^{16}$ of approx. 124.4°, and $n_D^{19} = 1.4920$. When the latter is oxidized with chromic acid in CH_3COOH an anhydride of 86-88°/10mm boiling point, $[\alpha]_D$ of approx. 37.2°, $n_D^{16} = 1.5075$, and $d_{16}^{16} = 0.9085$ is obtained.

Cad 1/1

BRZOZOWSKI, Zdzislaw; ZACHAREWICZ, Witold

On new complex compounds of isocyanates with tertiary amines. II.
Rocz chemii 35 no.4:1163-1165 '61.

1. Laboratorium Badawcze Starogardzkich Zakladow Farmaceutycznych,
Starogard Gdanski i Katedra Chemii Organicznej, Uniwersytet M. Koper-
nika, Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold

The action of selenium oxyde upon terpinolene.
Rocz chemii 35 no.6:1597-1609 '61.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika,
Torun.

SILA, Bronislaw; LESIAK, Tadeusz; ZACHAREWICZ, Witold; WESOLOWSKI, Kornel;
CISZEWSKI, Bohdan; KAMIŃSKI, Lech

Studies on the utilization of o-nitroethylbenzene. III. Catalytic
synthesis of kumaron with o-ethylphenol. Przem chem 41 no.2:72-
72 F '62.

ZACHAREWICZ, Witold; UZAREWICZ, Arkadiusz; SEKUTOWICZ, Bozena

On the action of diborane on trans-verbenol. *Rocz chemii* 36
no.1:171-172 '62.

1. Katedra Chemii Organicznej, Uniwersytet M.Kopernika, Torun.

ZACHAREWICZ, Witold; BOROWIECKI, Lucjan; JANUSZEWSKA, Barbara

On a new photocatalytic method of obtaining d-carene-3-ol-7.
Rocz chemii 36 no.1:173-174 '62.

1. Katedra Chemii Organicznej, Uniwersytet M.Kopernika, Torun.

E 41812-66
 ACC NR: AP6031696 (N) SOURCE CODE: PO/0099/66/040/003/0437/0443
 AUTHOR: Zaidlewicz, Marek; Uzarewicz, Arkadiusz; Zacharewicz, Witold
 ORG: Department of Organic Chemistry, N. Copernicus University, Torun (Katedra Chemii Organicznej Uniwersytetu M. Kopernika)
 TITLE: Action of selenium dioxide on 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5
 SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 437-443
 TOPIC TAGS: selenium compound, organoselenium compound
 ABSTRACT: The action of selenium dioxide on 1,3-dimethyl-1-ethylcyclohexadiene-3,5 yields two products: (1) the mixture of 1,3-dimethyl-2-ethyl-benzene, and (2) selenoorganic compounds. Orig. art. has: 1 table. [Based on author's Eng. abst.] [JPRS: 36,002]
 SUB CODE: 07 / SUBM DATE: 02Aug65 / ORIG REF: 002 / OTH REF: 010

Card 1/1 af

0779

0276

BOROWIECKI, Lucjan; ZACHAREWICZ, Witold; PRZYSTUPA, Joanna

Transformations in the carane series. Pt. 1. Roz chemii 33
no. 1:87-91 '64.

1. Department of Organic Chemistry, N. Copernicus University,
Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold; KRUCHOWIAK, Lucjan.

New method of obtaining aldehyde of pinonic acid. Roczniki chemii 37 no.9:1063-1065 '63.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika, Torun.

BRZOSOWSKI, Zdzislaw; ZACHAREWICZ, Witold

New reactions and complex compounds of sulfonylisocyanates
with tertiary amines and their complexes with primary amines.
Rocz chemii 36 no.12:1743-1749 '63.

1. Laboratorium Badawcze, Starogardzkie Zakłady Farmaceutyczne,
Starogard Gdanski, i Katedra Chemii Organicznej, Uniwersytet im.
M.Kopernika, Torun.

BRZOCOWSKI, Zdzisław; ZACHAREWICZ, Witold

New reactions and complex compounds of isocyanates with tertiary amines and their complexes with primary amines. Pt. 2. Roczniki chemii 37 no.5:553-560 '63.

1. Research Laboratory, Polfa, Starogard, and Department of Organic Chemistry, Nicholas Copernicus University, Torun.

ZACHAREWICZ, Witold, prof.dr.

In Jędrzej Śniadecki's defense. Problemy 18 no.6:450 162.

BRZOZOWSKI, Zdzislaw; ZACHAREWICZ, Witold

On the new complex compounds of sulfoisocyanates with tertiary and primary amines. III. Roczniki chemii 36 no.2:291-293 '62.

1. Laboratorium Badawcze Starogardzkich Zakladow Farmaceutycznych, Starogard Gdanski, i Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika, Torun.

ZACHAREWICZ, Witold; UZAREWICZ, Arkadiusz; ZADLEWICZ, Marek

On boronylation-oxydation of 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5.
Rocz chemii 36 no.2:367-368 '62.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika, Torun.

SILA, Bronislaw; LESIAK, Tadeusz; ZACHAREWICZ, Witold; WESOŁOWSKI, Kornel;
CISZEWSKI, Bohdan; KAMIŃSKI, Lech

Studies on the utilization of o-nitroethylbenzene.
Pt. 3. Catalytic synthesis of kumaron from o-ethylphenol.
Przem chem 41 no.2:70-72 F '62.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika,
Toruń i Katedra Metaloznawstwa, Politechnika, Warszawa.

S/081/62/000/021/013/069
B156/B101

AUTHORS: Zacharewicz, Witold, Uzarewicz, Arkadiusz, Zaidlewicz, Marek
TITLE: The hydroboration and oxidation of 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 140, abstract 21Zh92 (Roczn. chem., v. 36, no. 2, 1962, 367 - 368 [Pol.; summary in French])

TEXT: A new unsaturated $C_{10}H_{18}O$ alcohol of unknown structure has been produced by the action of B_2H_6 on 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene (I) followed by oxidation. Over a period of 4 hours, 2.35 g of B_2H_6 are passed through 0.5 moles I dissolved in 200 ml of ether, in N_2 atmosphere (at $0^\circ C$). The ether is distilled off in vacuo, 30 ml water, and then a mixture of 70 ml 30 % H_2O_2 and 60 ml of 3 N NaOH are added; $C_{10}H_{18}O$ is extracted from the reaction mixture with ether; its boiling point is

Card 1/2

The hydroboration and oxidation...

S/081/62/000/021/013/069
B156/B1011

97 - 99°C/8 mm Hg, n_D^{20} 1.4783, d_4^{24} 0.9924. The corresponding carbonyl compound was produced by the action of H_2CrO_4 on $C_{10}H_{18}O$; its 2,4-dinitro-phenyl hydrazone has the melting point 130 - 131°C. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/023/035/120
B166/B101

AUTHORS: Brzozowski, Zdzisław, Zacharewicz, Witold
TITLE: New complex compounds of sulfoisocyanates with tertiary and primary amines. III
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1962, 267, abstract 23Zh161 (Roczn. chem., v. 36, no. 2, 1962, 291-293 [Pol.; summaries in Russ., Eng., and Ger.]

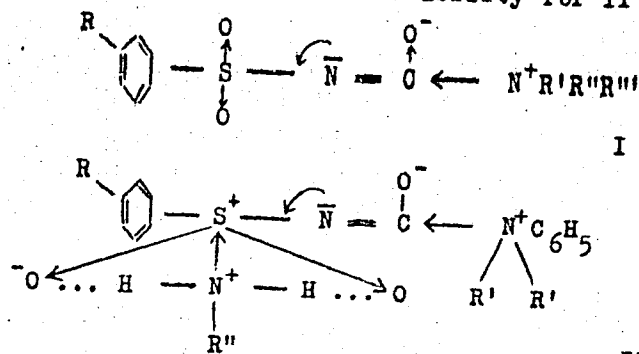
TEXT: Sulfoisocyanates (I) have been produced previously (see communication II, RZhKhim, 1962, 6Zh4), now their interaction with primary amines is studied. The result of the reaction depends on the basicity of the primary amine and the structure of the I. When I ($R = CH_3$, $NR'R'' =$ pyridine) interacts with a primary amine N,N' -substituted ureas are formed regardless of the basicity of the amine, whereas I ($R = CH_3$, $NR'R'' =$ dialkylaniline) react only with highly basic primary amines (dissociation constant $10^{-5}-10^{-4}$) to form a substance (II). It is suggested that the formation of II is connected with the primary amine's difficult approach to the carbonyl C atom, as a result of which the

Card 1/3

New complex compounds of...

S/081/62/000/023/035/120
B166/B101

attachment goes via the electropositive S atom due to the amine's electron pair. It was established that the ability for II formation



II. (a) $R = R' = \text{CH}_3$, $R'' = \text{C}_6\text{H}_5\text{CH}_2$; (b) $R = R' = \text{CH}_3$, $R'' = n\text{-C}_4\text{H}_9$;
(c) $R = \text{CH}_3$, $R' = \text{C}_2\text{H}_5$, $R'' = n\text{-C}_4\text{H}_9$; (d) $R = \text{H}$, $R' = \text{C}_2\text{H}_5$, $R'' = n\text{-C}_4\text{H}_9$;
(e) $R = \text{Cl}$, $R' = \text{C}_2\text{H}_5$, $R'' = n\text{-C}_4\text{H}_9$

Card 2/3

New complex compounds of...

S/081/62/000/023/035/120
B166/B101

increases with increase in the electronegativity of the R in the I
($\text{CH}_3 < \text{H} < \text{Cl}$). The II, the gross formula and the melting point in $^{\circ}\text{C}$ are
given: a, $\text{C}_{23}\text{H}_{27}\text{O}_3\text{N}_3\text{S}$, 211-212; b, $\text{C}_{20}\text{H}_{29}\text{O}_3\text{N}_3\text{S}$, 221-223; c, $\text{C}_{22}\text{H}_{33}\text{O}_3\text{N}_3\text{S}$,
178.5-180; d, $\text{C}_{21}\text{H}_{31}\text{O}_3\text{N}_3\text{S}$, 177-178.5; e, $\text{C}_{21}\text{H}_{30}\text{O}_3\text{N}_3\text{SCl}$, 192-193.
[Abstracter's note: Complete translation.]

Card 3/3

ZACHAREWICZ, Witold

1. "Tense-Campier Mechanism of Reaction of Aromatic and Heterocyclic Compounds." A. I. ZHIVY of the State Science and Research Institute for Organic Synthesis and High Pressure (translation of an article revised by author, originally published in *Usp. Khim.* 27, 865 (1958) by N. NIKOLZ of the Faculty of Chemistry (Physical Chemistry) of the Polytechnic Institute (Politecnico) at Warsaw pp 741-811 (English Summary).
2. "Tetrapropylene Polymer Potentials." N. GILBERT-SILVERMAN pp 812-816.
3. "New Reactions and Combinations of Complex Inorganic and Organic Compounds and Their Complexes with Primary Amines." Vladimir BUDZINSKI of the Chair of Organic Chemistry (Katedra Chemii Organicznej) of the M. Kopernika University (Uniwersytet M. Kopernika) at Torun (Doktorate dissertation monograph, Specialist Prof. Dr. Witold ZACHAREWICZ, Supervisor (recensor): Prof. Dr. Jozef KURCZYK and Docent Dr. Jan KOPCOWICZ) pp 815-816.
4. "Behavior of Methyl Nucleophilic in a Polarized Field with Longitudinal Orientation." Roman TAJANOWSKI of the Institute of Chemistry (Instytut Chemii) of the M. Kopernika University (Uniwersytet M. Kopernika) at Torun (Doktorate dissertation monograph, Specialist Prof. Dr. Witold ZACHAREWICZ, Supervisor (recensor): Prof. Dr. Jozef KURCZYK and Docent Dr. Jan KOPCOWICZ) pp 815-816.

— 1/1 —

BOROWIECKI, Lucjan; ZACHAREWICZ, Witold

On the degradation of selenium compounds by acetic acid. *Rocz chemii*
35 no.4:833-842 '61.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika, Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold

A new method of obtaining 1-methylo- 4-isopropenylobenzene. Rocz chemii
35 no.4:1143-1146 '61.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika, Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold

On selenium compounds from terpinolene and their degradation. Rocz
chemii 35 no.5:1511-1517 '61.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika, Torun.

ZACHAREWICZ, Witold, dr., prof. chemii organicznej

Dr. Kazimierz Slawinski, professor of chemistry, 1870-1941, Wlad
chem 15 no.10:609-618 '61.

1. Uniwersytet Mikolaja Kopernika, Torun.

(Slawinski, Kazimierz) (Poland—Chemists)

FROM HERE WITH, WITOLD

✓ The action of selenium dioxide on α -pyrone. Władysław
Zacharański and Arkadiusz Łęgowicz (Włocławek, Poland). *Reczniki Chem.* 14, 113-121 (1941) French summary. — 1,2,3,4-tetramethylbenzene (I) was obtained by
action of 100.5 g. SeO_2 on 400 g. α -pyrone in alc. Nitro-
prene (m. 123-31°) was prepd. from I by Tobi's method
(Ber. 21 905 (1888)) and prehnitic acid (m. 164.5-67°) by
Jacobson's method (Ber. 19, 1214 (1886)). I was oxidized
by heating 4 days with 5% aq. KMnO_4 soln., filtered, con-
densed to 150 ml., acidified with H_2SO_4 , and the soln. extd.
with Et_2O to give mellopunic acid, m. 236-8°.

A. Kreglewski

4
1-JAJ(WB)
1-RDW

ZACHARIEWICZ, Witold; UZAREWICZ, Arkadiusz

The action of selenium dioxide on α -pyronene. Roczniki chemii 34 no.2:
413-422 '60. (EEAI 10:1)

1. Katedra Chemii Organicznej Uniwersytetu M.Kopernika, Torun
(Selenium oxides) (Pyronene)

BOROWIECKI, Lucjan; ZACHAREWICZ, Witold

A new semicyclic carene. Roczniki chemii 34 no.3/4:1181-1183 '60.
(EEAI 10:3)

1. Katedra Chemii Organicznej Uniwersytetu M. Kopernika, Torun.
(Carene)

ZACHAREWICZ, W.

A new carene alcohol. Witold Zacharewicz, Jan Krup-
wicz, and Lucjan Bocowicz. *Polish Chem. Commun.* 1959, 33, 87-92 (French summary).
Carene was oxidized by means of SeO_2 at 60° . The prod-
ucts, isolated by steam distn., were sepd. in 2 parts by
action of satd. aq. soln. of Na_2SO_3 + NaHCO_3 (I). The part
nonreacting with I was twice distd. in vacuo to give d-3-
carene-7-ol (b. $77-8^\circ/3$ mm.) [α_D^{20} 119° , n_D^{20} 1.4900, d_4^{20}
0.9431, R_x 46.59 (calcd. 48.12) (II). 8-Nitrophthalate of
II melts at $148.5-150.5^\circ$ (yellow crystals; α_D^{20} -6.4°). II re-
acts with 2 moles Br. Oxidation of II by means of CrO_3
in AcOH yielded 3-carene-7-al, b. $75-8^\circ/3$ mm., [α_D^{20} 87.2° ,
 n_D^{20} 1.4960, d_4^{20} 0.9718, R_x 46.16; 2,4-dinitrophenylhydra-
zone m. $164-5^\circ$, red. Oxidation of II with KMnO_4 gave
trans-caronic acid, m. $208-8.5^\circ$. A. Kreglański

9/11

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ZMAJ
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